

Building Our Future

INDIANA CAREER MAJORS

Special Interest Articles:

- Portage HEALS
- Owen Valley Cancer Research Project
- Jefferson Student takes 1st at College Competition

Department of Workforce Development Education & Training 317-233-5663

DWD to release Career Majors/ Tech Prep Request for Proposals

The Request for Proposal will be issued in January 2004. Grants will be due on March 19, 2004 and awards will be announced by April 9, 2004.

Grants will range from \$30,000 to \$100,000 over a one-year period. Current Career Majors/Tech Prep grantees are not eligible to apply for this round of grants unless the consortium is applying for a high school that is not currently being funded. An electronic version of the application is available at

<http://www.in.gov/dwd/education/stw/index.html>

Roche Diagnostics & Lawrence Township Schools Announce New Life Sciences Partnership

Roche Diagnostics and Lawrence Township Schools have launched a new partnership program in support of K-12 education and the Central Indiana life sciences initiative.

This summer, Lawrence Township teachers will be able to participate in an "internship" at Roche. The program is designed to give the teachers an understanding of the knowledge needed for success in the Roche environment. Teachers will use the internship experience to write new lesson plans to deliver in the classroom in the fall. Those lesson plans will be supported with participation by Roche Diagnostics' people.

Descriptions of the internships will be available by mid-February. It is

anticipated that opportunities will be available in a variety of areas; e.g. laboratory, information technology, administrative support. Internships will last four - six weeks. The length of the internship will vary according to the type of project. Teachers who participate will receive a stipend. At the end of the internship, teachers will submit a lesson plan developed to demonstrate their Roche experience in the classroom.

This type of education-corporation collaboration is critical to Indiana, and we applaud both Roche Diagnostics and Lawrence Township Schools' efforts as they move forward with this exciting and beneficial program.

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Portage HEALS - Health Academy of Learning and Service

Portage High School has a new Health Academy and a partnership with the Portage Community Health Care Clinic that is attached directly to their school and classrooms.

Currently, Portage students are in their junior year of the health academy. The juniors are enrolled in a course called Medical Terminology and Anatomy. The students master not only textbook information about anatomy and physiology; they also get hands on experiences dissecting organs and parts in class labs. The students learn about the anatomical physiology of a body part, and then learn about the pathological conditions and the disease process of the human body. A great hands on element added to the class, is a clinical component. Students work on assigned days, with the nurse practitioners, physician, dentists and medical staff to

assist in providing care under the direct supervision of licensed health care professionals.

The academy experience incorporates hospital job shadowing as well as the opportunity to assist the school nurse in providing care for elementary school students in performing lice checks, hearing and vision screenings and dental health presentations. The students look very professional in their black scrubs with the logo in school colors that reads Portage HEALS, which stands for Health Education Academy of Learning and Service.

Portage students also have opportunities to test out of anatomy at the university level as well as earn college credit in medical terminology at local supportive universities.



"What you are seeing is the integration of knowledge of agriculture with biomedical research and that is the future of both disciplines."

*Dr. John Foley,
assistant professor in
medical sciences at IU*

Curly Chicken Cancer Research Project at OVHS

Students at Owen Valley High School (OVHS) in Spencer are working with Cheng-Ming Chuong, a world-known feather authority at the University of Southern California (USC) and Dr. John Foley, a professor at Indiana University (IU) on a cancer research project.

Students are raising curly and frizzle chickens and shipping the eggs to Chuong at USC, under the direction of Tom Wallace, an instructor in the vocational-agriculture department at OVHS. The project is extremely exciting to Wallace because it addresses so many areas of the OVHS curriculum, such as biology, agriculture, mathematics and writing among others. He said that approximately 75 students would be involved in the study.

Chuong is known worldwide as "Mr. Feather". In reference to the experiments in California, Dr. Foley explained, "He wants to study these

birds to understand what makes the feather curl, as well as possible biomedical or health benefits...."

Addressing the value of feather research, Foley said, "You've got to remember that nearly all vertebrates are covered with scales, feathers, or hair. The feather is by far the most elaborate structure. Also it is the largest and easiest to study."

Foley also stated that, "What you are seeing is the integration of knowledge of agriculture with bio-medical research, and that's the future of both disciplines."

"In Indiana, there is a shortage of people trained to work in the field of medical science. Without the development of these young people you're not going to be able to meet the goals of the economic change that the governor and industry leaders such as Eli Lilly want to make."



Jefferson Student takes First Place at College Competition



On Friday, October 10, 2003, the Ohio Valley Entomological Association held their annual forum for student research paper competition in Indianapolis. At this competition, college undergraduates, master's degree, and Ph.D. students present the results of their scientific research.

Ruth Hegarty - a senior at Jefferson High School - was the only high school student to present and so she was placed in the college undergraduate competition. She presented a 10-minute PowerPoint presentation (followed by questions and answers) on her science research project from last year entitled "Influence of Sanitation Level upon the Efficacy of Tribolium Pheromone Traps". She won first place and \$250!

She was very excited, of course, but

especially about her observation that many of the Jeff High School science research projects of her peers are superior to even some of the master's degree projects that she heard at the student research paper competition.

We're extremely proud of Ruth, her work, and the way that she represents Jefferson High School. As a student in the Science Research Course, Ruth presently is continuing her research with Dr. Linda Mason in the Purdue department of Entomology.

Jefferson's Science Research Course allows each student to intern with a Purdue Professor or someone in the Purdue Research Park or Eli Lilly. They have 18 students currently interning.



Indiana Career Majors March Institute to be held March 17-18

DWD is making plans for the fourth Career Majors Institute to be held at the Omni Severin Hotel located in downtown Indianapolis on March 17-18, 2004. In addition, Pike High School will be hosting a pre-Institute site visit at 1:00 on March 16.

The Institute concept combines professional development and concentrated planning time to help school/consortium teams move forward faster and more effectively in their school improvement plans. It is a two-day event focused on the development of strategic action plans to support a goal, in this case improving education through the implementation of Career Majors. All Career Majors schools are encouraged to attend. There are five main components to the Institute. The first is teams. Five to ten key stakeholders attend the Institute as a team. They work in individual teams for a majority of the two-day Academy. The second is trained facilitators, one for each team. The third component is content faculty, providing just-in-time technical assistance to

teams. The fourth is a product, a tangible "take home" action plan as a result of the Academy planning process. And the fifth is evaluation/follow-up, to ensure continuing work and implementation of the plan.

There are many excellent content coaches that will be in attendance, including Betty Despenza-Green (Chicago), Billie Donegan (Texas), John Harrington (Oregon), Santo Nicotera (Colorado), Lois Ann Porter (California), Meaghan Argay (Indiana), Grace Sammon (Washington), and Nancy Sutton (Colorado/Indiana). Teams will choose several people from this group to come into their team planning session to talk with them about practical knowledge and lessons learned as it relates to their individual school. There will also be time talk to the coaches at the Networking Reception on the evening of St. Patrick's Day. This will be a great chance to plan for year two.

Registration materials will be sent to interested Career Majors schools by the end of January.

*"Awesome design -
we were able to
accomplish so much"*



*2002 Academy
Participant*



Send Us Your Stories

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The purpose of this monthly newsletter is to share information between the twenty Career Majors schools and their consortium members. All of you have many different good things going on and your own specialty areas that you are excelling at in your school and consortium. Please send any success stories and if possible, digital pictures to Terri Schulz at tschulz@dwd.state.in.us.

Stories that include data are especially appreciated.

We will try to incorporate these success stories into the newsletter so you can see what the other schools are doing. Be sure to send contact information in the form that you would most like other schools to contact you for additional information. Schools that have stories in the newsletter will receive 25 color copies of the newsletter for distribution to key stakeholders.

Thank you in advance for your help in getting these wonderful success stories to us.

We're on the Web!

See us at:

<http://www.in.gov/dwd/education/stw/index.html>

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